	Application No.	Applicant(s)	
Notice of Allowability	10/680,217	680,217 IIZUKA ET AL.	
	Examiner	Art Unit	
	Kevin M. Picardat	2822	and a
	Revirtivi. Ficaldat	2022	
The MAILING DATE of this communication apperaisable apperaisable allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate communication is significant or communication in the communication is significant or communication in the communication is significant or communication.	n this application. If not include unication will be mailed in due o	d course. <b>THIS</b>
1. X This communication is responsive to papers filed on 08 Oc	<u>stober 2003</u> .		
2. ⊠ The allowed claim(s) is/are <u>1-16</u> .			
3. $igotimes$ The drawings filed on <u>08 October 2003</u> are accepted by th	e Examiner.		
4.  Acknowledgment is made of a claim for foreign priority ur  a)  All b)  Some* c)  None of the:  1.  Certified copies of the priority documents have 2.  Certified copies of the priority documents have 3.  Copies of the certified copies of the priority do	e been received. e been received in Application cuments have been received of this communication to file IENT of this application.  itted. Note the attached EXA as reason(s) why the oath or set be submitted. Son's Patent Drawing Review as Amendment / Comment or 184(c)) should be written on the header according to 37 CF sit of BIOLOGICAL MATE	on No  Id in this national stage application that is national stage application are played as a reply complying with the requestion and the replayed are played as a reply complying with the requestion of the declaration is deficient.  If the Office action of the declaration is the front (not the line of the l	uirements OTICE OF
Attachment(a)			
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5. Notice of In	formal Patent Application (PTO	-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)		ımmary (PTO-413),	•
<ol> <li>Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date <u>10-8-03</u></li> </ol>	Paper No./ 8), 7. ☐ Examiner's	Mail Date Amendment/Comment	
4. Examiner's Comment Regarding Requirement for Deposit		Statement of Reasons for Allov	vance
of Biological Material	9.	<u>-</u> •	
		ZULI Kovin M. Ploadobi Primary Examinor	

U.S. Patent and Trademark Office PTOL-37 (Rev. 1-04) The following is an examiner's statement of reasons for allowance: None of the prior teaches or suggests a method of forming a capacitor including forming a lower electrode, forming a first insulating film by an ALD process using a metal-containing organic compound having one metal and an oxidizing agent to form a first metal oxide film on the lower electrode, treating the first metal oxide with a heat treatment in an oxidizing ambient to remove residual carbon resulting in the formation of the first insulating film, forming a second insulting film by an ALD process using a metal-containing compound having a metal different than the first and an oxidizing agent to form a second insulating film on the first insulating film and forming an upper electrode

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

on the structure, also the two insulating films may be made in reverse order.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kevin M. Picardat whose telephone number is 571-272-1841. The examiner can normally be reached on Monday-Thursday 7:00-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Amir Zarabian can be reached on 571-272-1852. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Art Unit: 2822

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Kevin M. Picardat Primary Examiner Art Unit 2822

kmp